

### Identification

<b>Material number</b>	<b>Reference number</b>	<b>AISI</b>
1.2235	(80CrV2)	

### Chemical composition Typical analysis in %

<b>C</b>	<b>Cr</b>	<b>V</b>
0.80	0.60	0.20

### Steel properties

Special steel for woodworking, featuring a keen cutting edge.

### Physical properties

<b>Thermal conductivity W/(m · K)</b>	20 °C	350 °C	700 °C
	33.5	32.0	31.0

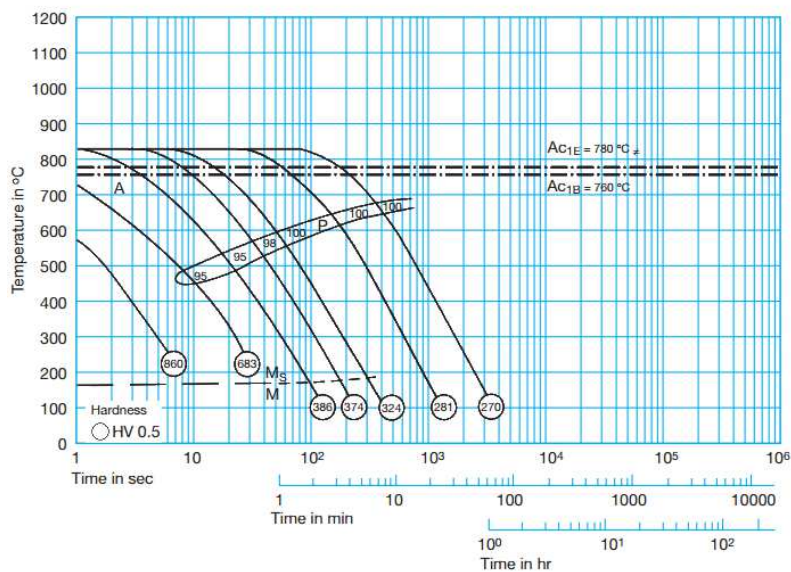
### Applications

Circular and gang saws, machine knives, cutting tools for wood and non-ferrous metals, pliers and wood chisels.

### Heat treatment

<b>Soft annealing °C</b>	<b>Cooling</b>	<b>Hardness HB</b>			
680	Furnace	225			
<b>Stress-relief annealing °C</b>	<b>Cooling</b>				
approx. 650 – 680	Furnace				
<b>Hardening °C</b>	<b>Quenching</b>	<b>Hardness after quenching HRC</b>			
800 – 830	Oil	63			
<b>Tempering °C</b>	100	200	300	400	500
<b>HRC</b>	63	61	57	52	45

### Time-temperature-transformation diagram



### Tempering diagram

